Notice of Allowability	Application No.	Applicant(s)	
	10/764,854	OKMIANSKI ET AL.	
	Examiner	Art Unit	
	David E. Martinez	2181	
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT ROOF the Office or upon petition by the applicant. See 37 CFR 1.313	ears on the cover sheet with (OR REMAINS) CLOSED in to or other appropriate commun IGHTS. This application is sub	nis application. If not included cation will be mailed in due course	e. THIS e initiative
2. The allowed claim(s) is/are <u>1-20</u> .			
3.	e been received. e been received in Application cuments have been received in Application of this communication to file a MENT of this application. iitted. Note the attached EXAM as reason(s) why the oath or do to be submitted. Son's Patent Drawing Review (communication) in Amendment / Communication on the header according to 37 CFR sit of BIOLOGICAL MATER	No In this national stage application from this national stage application from this national stage application from the requirem of the Office action of the Office action of the	ents E OF
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date	6. ☐ Interview Sum Paper No./Ma 8), 7. ☐ Examiner's Ar 8. ☑ Examiner's St 9. ☐ Other	mal Patent Application (PTO-152) mary (PTO-413), ail Date nendment/Comment atement of Reasons for Allowance FRITZ FLEMING UPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2100	

Allowable Subject Matter

Claims 1-20 are allowed over the prior art of record.

The following is an examiner's statement of reasons for allowance:

As per claims 1, 8, 19 and 20, the prior art of record alone or in combination fail to teach or fairly suggest:

determining if a received transaction is a single transaction in the system or not, and then flushing the data buffer to a storage device if it is, and if it isn't the only transaction in the system, determining whether a maximum response time will be met for an oldest transaction waiting for a flush in the system if the data buffer were flushed to the storage device immediately;

determining if a maximum response time will or will not be met, and then flushing the data buffer to a storage device if it will be met, and if it's not going to be met, determining whether a rate of data of incoming transactions is higher than a rate of flushing data from the data buffer to the storage device if flushed immediately;

determining if the rate of data of incoming transactions is lower or higher than the rate of flushing data from the data buffer to the storage device if flushed immediately, and if the rate is lower, then flushing the data buffer to the storage device, and if the rate is higher then waiting to receive another transaction; and

updating a flush performance history after each flush of the data buffer to the storage device.

As per claims 9 and 18, the prior art of record alone or in combination fail to teach or fairly suggest:

a memory including a data buffer and a system performance history, the system performance history including system performance data about rates of flushing the data buffer to the non-volatile storage device and batch sizes of flushing the data buffer to the non-volatile storage device; and

a controller configured to flush the data buffer to the non-volatile storage device according to the system performance data from the system performance history, and to update the system performance history with data from the flush of the data buffer to the non=volatile storage device.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David E. Martinez whose telephone number is (571) 272-4152. The examiner can normally be reached on 8:30-5:00 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Fritz M. Fleming can be reached on 571-272-4145. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/764,854

Art Unit: 2181

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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